Product Name: PTPN1 Rabbit Monoclonal Antibody
Catalog #: AMRe87672

Summary

Production Name	PTPN1 Rabbit Monoclonal Antibody
Description	Rabbit Monoclonal antibody
Host	Rabbit
Application	WB, IHC-P, ICC/IF, FC, IP
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% protective protein. Stable for 12 months from date of receipt.
Purification	Affinity Purification

Immunogen

Gene Name	PTPN1
Alternative Names	PTP1B
Gene ID	5770, 19246, 24697
SwissProt ID	P18031, P35821, P20417.

Application

Dilution Ratio	WB: 1:1000 IHC-P: 1:200-1:1000 ICC/IF: 1:50 FC: 1:20-1:50 IP: 1:20-1:50
Molecular Weight	Calculated MW:50 kDa; Observed MW:50 kDa

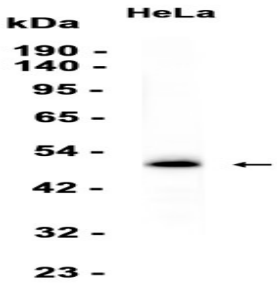
Background

The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was

isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013]

Research Area

Image Data



Western blot analysis of extracts from HeLa cells using AMRe87672 at 1:1000.

Note

For research use only.